call void @llvm.dbg.value(metadata ptr %a, metadata !49, metadata ...!DIExpression()),!dbg!58 call void @llvm.dbg.value(metadata ptr %b, metadata !50, metadata ...!DIExpression()),!dbg!58 call void @llvm.dbg.value(metadata ptr %c, metadata !51, metadata ... !DIExpression()), !dbg !58 call void @llvm.dbg.value(metadata ptr %cond, metadata !52, metadata ...!DIExpression()),!dbg!58 call void @llvm.dbg.value(metadata i32 %n, metadata !53, metadata .. !DIExpression()), !dbg !58 %call = tail call double @getTimeMiliSeconds(), !dbg !59 call void @llvm.dbg.value(metadata double %call, metadata !55, metadata .. !DIExpression()), !dbg !58 %0 = load i32, ptr @EventSet, align 4, !dbg !60, !tbaa !62 %call1 = tail call i32 @PAPI\_start(i32 noundef %0) #10, !dbg !66 call void @llvm.dbg.value(metadata i32 %call1, metadata !54, metadata .. !DIExpression()), !dbg !58 %cmp.not = icmp eq i32 %call1, 0, !dbg !67 br i1 %cmp.not, label %for.cond.preheader, label %if.then, !dbg !68 if.then: for.cond.preheader: %1 = load ptr, ptr @stderr, align 8, !dbg !73, !tbaa !75 call void @llvm.dbg.value(metadata i32 0, metadata !56, metadata %call2 = tail call i32 (ptr, ptr, ...) @fprintf(ptr noundef %1, ptr noundef ... nonnull @.str, i32 noundef %call1, ptr noundef nonnull @.str.1, i32 noundef ...!DIExpression()),!dbg!69 %cmp391 = icmp sgt i32 %n, 0, !dbg !70 ... 92) #11, !dbg !73 br i1 %cmp391, label %for.body.preheader, label %for.cond.cleanup, !dbg !72 tail call void @exit(i32 noundef %call1) #12, !dbg !73 F Τ unreachable, !dbg !73 for.body.preheader: %wide.trip.count = zext i32 %n to i64, !dbg !70 br label %for.body, !dbg !72 for.body: %indvars.iv = phi i64 [ 0, %for.body.preheader ], [ %indvars.iv.next, ... %for.inc ] call void @llvm.dbg.value(metadata i64 %indvars.iv, metadata !56, metadata ..!DIExpression()),!dbg!69 %arrayidx = getelementptr inbounds i8, ptr %cond, i64 %indvars.iv, !dbg !82 %3 = load i8, ptr %arrayidx, align 1, !dbg !82, !tbaa !85, !range !87 %tobool.not = icmp eq i8 %3, 0, !dbg !82 br i1 %tobool.not, label %for.inc, label %if.then4, !dbg !88 %arrayidx6 = getelementptr inbounds i32, ptr %c, i64 %indvars.iv, !dbg !89 %4 = load i32, ptr %arrayidx6, align 4, !dbg !89, !tbaa !62 %add = add nsw i32 %4, 4, !dbg !91 %arrayidx8 = getelementptr inbounds i32, ptr %a, i64 %indvars.iv, !dbg !92 store i32 %add, ptr %arrayidx8, align 4, !dbg !93, !tbaa !62 %arrayidx10 = getelementptr inbounds i32, ptr %b, i64 %indvars.iv, !dbg !94 %5 = load i32, ptr %arrayidx10, align 4, !dbg !94, !tbaa !62 %cmp13 = icmp slt i32 %5, %add, !dbg !96 br i1 %cmp13, label %if.then14, label %if.else, !dbg !97 if.else: %mul25 = mul nsw i32 %5, %4, !dbg !101 store i32 %mul25, ptr %arrayidx10, align 4, !dbg !103, !tbaa !62 %cmp32 = icmp sgt i32 %mul25, %add, !dbg !104 br i1 %cmp32, label %if.then33, label %if.end39, !dbg !106 if.then33: if.then14: %mul = mul nsw i32 %add, %4, !dbg !98 %sub = add nsw i32 %4, -76, !dbg !107 br label %if.end39.sink.split, !dbg !100 br label %if.end39.sink.split, !dbg !109 if.end39.sink.split: %sub.sink = phi i32 [ %sub, %if.then33 ], [ %mul, %if.then14 ] store i32 %sub.sink, ptr %arrayidx10, align 4, !dbg !110, !tbaa !62 br label %if.end39, !dbg !111 if.end39: %6 = phi i32 [ %mul25, %if.else ], [ %sub.sink, %if.end39.sink.split ], !dbg ... !112 %add44 = add nsw i32 %6, %add, !dbg !111 store i32 %add44, ptr %arrayidx6, align 4, !dbg !113, !tbaa !62 br label %for.inc, !dbg !114 for.inc: %indvars.iv.next = add nuw nsw i64 %indvars.iv, 1, !dbg !115 call void @llvm.dbg.value(metadata i64 %indvars.iv.next, metadata !56, ... metadata !DIExpression()), !dbg !69 %exitcond.not = icmp eq i64 %indvars.iv.next, %wide.trip.count, !dbg !70 br i1 %exitcond.not, label %for.cond.cleanup, label %for.body, !dbg !72, ...!llvm.loop!116 for.cond.cleanup: %2 = load i32, ptr @EventSet, align 4, !dbg !77, !tbaa !62 %call48 = tail call i32 @PAPI\_stop(i32 noundef %2, ptr noundef nonnull ... @CounterValues) #10, !dbg !79 call void @llvm.dbg.value(metadata i32 %call48, metadata !54, metadata ...!DIExpression()),!dbg!58 %cmp49.not = icmp eq i32 %call48, 0, !dbg !80 br i1 %cmp49.not, label %if.end52, label %if.then50, !dbg !81 Τ F if.then50: %7 = load ptr, ptr @stderr, align 8, !dbg !120, !tbaa !75 if.end52: %call51 = tail call i32 (ptr, ptr, ...) @fprintf(ptr noundef %7, ptr noundef %call53 = tail call double @getTimeMiliSeconds(), !dbg !122 ... nonnull @.str, i32 noundef %call48, ptr noundef nonnull @.str.1, i32 noundef %sub54 = fsub double %call53, %call, !dbg !123 store double %sub54, ptr @ExecutionTime, align 8, !dbg !124, !tbaa !125 ... 112) #11, !dbg !120 tail call void @exit(i32 noundef %call48) #12, !dbg !120 ret void, !dbg !127 unreachable, !dbg !120

CFG for 'nested if case 2' function